wherein WYBAZCX is composed of amino acid sequences that include one or more sequences shown in FIGS. 1 through 15 (which includes SEQ ID NOS:2, 4, 5, 8, 9, 12, 14, 15, 18, 19, 22, 23, 26, 27, 30, 33, 35, 38, 39, 41, 44, 45 and 48), wherein W comprises the polypeptide segment F, or is absent; wherein Y comprises the polypeptide segment E, or is absent; wherein Z comprises the polypeptide segment G or is absent; and wherein X comprise a polypeptide segment selected from the group consisting of C/D HKL, C/D H, C/D HL, C/D D, C/D' HKL, C/D' HKL, C/D C/D' HKL, C/D C/D' HKL, C/D C/D' HKL, C/D D' HKL, C/D D' HKL, C/D D' HKL, C/D' D' HKL, C/

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- a) at least one of F, Y, B, A, Z, C or X is of bovine origin; or
- b) Y comprises the polypeptide segment E; or
- c) X comprises the polypeptide segments C/D HKL, C/D D, C/D' HKL, C/D C/D' HKL, C/D D' HKL, C/D D' HKL, C/D D' HKL, C/D' D' H, C/D' D' HKL, C/D' D' HKL, C/D' D' HKL, C/D' D' HKL, C/D' H, C/D C/D' HL.
- 10. (Once Amended) The method of [claim 7] claims 1, 2, 3, or 4, wherein the neuregulin or fragment or derivative thereof comprises FBA polypeptide segments, FEBA polypeptides segments, EBA polypeptide segments or FEBA' polypeptide segments.

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11. (Once Amended) The method of [claim 7] claims 1, 2, 3, or 4, wherein the



neuregulin is encoded by a nucleic acid that [comprises one of] is selected from the group consisting of SEQ ID NOS: 49, 51 and 53.

22. (Once Amended) The method of [claim 7] claims 1, 2, 3, or 4, wherein the neuregulin or fragment or derivative comprises a sequence that is shown in Figures 7, 8 or 9.

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- 23. (Once Amended) [A] The method of any one of claims [1-6] 1-4, wherein a nucleic acid encoding a neuregulin or a fragment or derivative thereof is administered to the mammal.
- 27. (Once Amended) The method of [claim 25] claims 1, 2, 3, or 4, wherein the neuregulin or neuregulin fragment or derivative comprises FBA polypeptide segments, FEBA polypeptides segments, EBA polypeptide segments or FEBA' polypeptide segments.
- 35. (Once Amended) [A] The method of any one of claims [1-34] 1-4, wherein the administered neuregulin or fragment or derivative[, or the administered nucleic acid encodes a neuregulin fragment or derivative] exhibits at least about a 10% reduction in infarct volume in an *in vivo* cerebral ischemia assay.